

## **Material Safety Data Sheet**

#### Kool Mist Formula 77

#### Section 1 Product / Company Identification

Product Trade Name Kool Mist Formula 77 MSDS Number KM-077 (rev. 02)

Synonym / Use Heavy duty coolant for spray mist systems. Date of Issue January 16,2013

Chemical Name Mixture

Chemical Formula Trade Secret

Manufacturer Kool Mist Technical Support (562) 246-0949

9218 Norwalk Blvd. Website www.koolmist.com

Santa Fe Springs, CA 90670 **CHEMTREC** (800) 424-9300

U.S.A. Outside the US Call (703) 741-5500

#### Section 2 Composition / Information on Ingredients

Chemical Name	CAS Number	Weight (%) Non-Diluted	Weight (%) Diluted	Occupational Exposure Limits	
				TLV (ACGIH)	PEL (OSHA)
Carboxylic acid salt	93981-14-7	30 – 60	< 2	None	None
Water	7732-18-5	20 – 40	> 98	None	None
Triethanolamine	102-71-6	20 – 40	< 1	5 mg/m3	None
Polyalkylene glycol monobutyl ether	9038-95-3	1 – 5	< 0.1	None	None

TLV = Threshold Limit Value; PEL = Permissible Exposure Limit

#### Section 3 Hazards Identification

#### **EMERGENCY OVERVIEW**

This product is considered <u>non-hazardous</u> under normal conditions of use. Excessive exposure to mist may cause sore throat, coughing and mild upper respiratory irritation. Prolonged skin contact with undiluted product may result in transient dryness and mild irritation. Wash hands and exposed skin with mild soap and water after each exposure.

NFPA Rating Health 1 Fire 0 Reactivity 0 Special Hazard 0
HMIS Rating Health 1 Fire 0 Reactivity 0 PPE Code A

WHMIS Class None
Hazard Category None

Routes of Entry Absorbed through skin. Inhalation and eyes via mist. Ingestion.

Target Organs Lungs, respiratory system, and eyes.

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#### Section 3 **Hazards Identification**

### Signs and Symptoms of Overexposure

Inhalation Excessive inhalation of product mist may cause mild irritation.

Skin Contact Essentially non-irritating to the skin. Prolonged exposure to undiluted product may cause mild

irritation and dryness.

Eye Contact Mist may cause mild eye irritation in sensitive individuals.

Ingestion Non-hazardous when ingested. May cause mild irritation to the gastro-intestinal (GI) tract if

excessive quantities are ingested.

Medical Conditions Aggravated by Exposure

In sensitive individuals certain medical conditions may be aggravated by prolonged exposure, including dry skin and/or dermatitis, and pre-existing chronic upper respiratory diseases such as

bronchitis, emphysema and asthma.

#### Section 4 **First Aid Measures**

Remove to fresh air. If coughing and irritation develop seek medical attention. Inhalation

Flush with large amounts of water until irritation subsides, at least 15 minutes. Seek medical Eye Contact

attention if irritation persists.

Skin Contact Perform normal, good hygiene practices. Wash hands and exposed skin with mild soap and

water after each exposure

Emergency first-aid procedures are not normally required following ingestion. However, this Ingestion

product may cause temporary irritation to the gastro-intestinal (GI) tract if excessive quantities

are ingested. DO NOT INDUCE VOMITING unless directed by a physician.

Note to Physician Kool Mist Formula 77 is a water soluble synthetic soap compound used as an industrial metal

working lubricant. It has low general toxicity and irritancy.

#### **Section 5** Fire Fighting Measures

NFPA Classification Not classified by the National Fire Protection Agency (NFPA).

#### Flammable Properties and Explosive Limits

Non-flammable Flash Point **UFL / UEL** Non-flammable

Autoignition Non-flammable LFL / LEL Non-flammable

Dry chemical, carbon dioxide (CO<sub>2</sub>), water fog, or foam. Extinguishing Media

Fire / Explosion Hazard

Non-flammable. This product will not support combustion and does not pose a significant fire

and/or explosion hazard.

Special Firefighting

No special firefighting equipment is necessary. Use extinguishing media appropriate for the Equipment

surrounding fire.

**Hazardous Products** of Combustion

None.

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## Section 6 Accidental Release Measures

Personal In the event of a spill, comply with applicable health, safety and environmental regulations.

Precautions Eliminate sources of ignition and ventilate the area. Selection and use of personal protective

equipment should be in accordance with Section 8 (Exposure Controls / Personal Protection).

Environmental Precautions Environmental precautions are not normally required. This product does not pose a significant

environmental hazard.

Clean-Up Procedures Spills may be cleaned using water. Thoroughly rinse the affected area avoiding sewers and drains. Absorb remaining material and place in an approved hazardous waste container.

Dispose of in accordance with Section 13 (Disposal Considerations) of this MSDS.

# Section 7 Handling and Storage

Handling Precautions Specific handling precautions are not required. Avoid prolonged contact with undiluted product. Assure proper respiratory protection when using this product and/or when cleaning spills. Refer to Section 8 (Exposure Controls / Personal Protection) for further information.

Storage Requirements Store in a cool, dry area below 100° F. Store away from food and beverages. Keep away from reactive materials Always separate materials by hazard class. Refer to Section 10 (Stability and Reactivity) for incompatibility information and conditions to avoid.

# Section 8 Exposure Controls / Personal Protection

Engineering Controls

Maintain sufficient mechanical or natural ventilation. Use local exhaust if necessary.

Occupational Exposure Limits Triethanolamine (102-71-6): TWA: 5 mg/m3 from ACGIH (TLV)

Respiratory Protection None required under normal conditions of use. Selection and use of proper respiratory protection should be based on the level of exposure as measured by vapor sampling. Use OSHA 29 CFR 1910.134 or ANSI Z88.2 approved face masks, if required.

Eye Protection

Wear safety glasses with side shields or splash goggles when applying product. Selection and use of eye protection should comply with ANSI Z87.1-1-1989 and applicable OSHA standards.



or



**Skin Protection** 

Under normal conditions, protective gloves and a clean body covering are sufficient when handling undiluted product.



# Section 9 Physical and Chemical Properties

Appearance / Color Green viscous liquid Odor Mild, pleasant odor

Viscosity N/A Odor Threshold (ppm) N/A **Specific Gravity Melting / Freezing Point** 1.104 N/A **Boiling Point** 212° F (100° C) pH (1% soln/water) 8 **Evaporation Rate** N/A Vapor Density (air = 1) >1

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## Section 9 Physical and Chemical Properties

Density (g/ml) N/A Vapor Pressure (mm Hg) 23.0 hPa

Solubility in Water 100% % Volatile by Vol. / Wt. N/A

# Section 10 Stability and Reactivity

**Stability** Stable under normal conditions of use.

Incompatibility Avoid contact with strong oxidizing agents. Keep away from nitrites which may result in

nitrosamine formulation.

**Conditions to Avoid** None in designed use.

Hazardous Polymerization

Will not occur.

Hazardous Products of Decomposition

When heated to decomposition product may release CO, CO<sub>2</sub> and irritating aldehydes. Fumes

can react with oxidizing materials forming NO and NO<sub>2</sub>.

# Section 11 Toxicological Information

Acute / Chronic Exposure Excessive exposure may cause a sore throat, coughing and mild upper respiratory irritation.

Prolonged skin contact with undiluted product may result in dryness and mild irritation.

### **Toxicological Data on Ingredients**

**LC**<sub>50</sub> / **LD**<sub>50</sub> Triethanolamine, CAS No.: 102-71-6: Oral (LD<sub>50</sub>): 5846 mg/kg [Mouse]

Oral (LD<sub>50</sub>): 2200 mg/kg [Rabbit] Skin (LD<sub>50</sub>): 20 ml/kg [Rabbit]

Carcinogenicity Triethanolamine, CAS No.: 102-71-6: IARC: Group 3 (Not Classifiable)

**Synergistic Products** No relevant information exists regarding the toxicological interactions of this product.

**Irritancy of Product** Product has a low degree of irritancy.

**Sensitization** Non-sensitizing.

**Teratogenicity** Non-teratogenic.

Mutagenicity Non-mutagenic.

Reproductive

**Toxicity** 

No additional information is available. This product is not expected to cause adverse

reproductive system effects.

## Section 12 | Ecological Information

**Ecotoxicity** Product does not pose a significant environmental hazard.

**Mobility** No additional information is available.

BOD5 / COD No additional information is available.

**Biodegradation** No additional information is available.

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## **Section 13** Disposal Considerations

Disposal Method May be disposed in an approved landfill in accordance with local, state and federal regulations.

If this product has become contaminated in service, place in an approved hazardous waste container. Seal and properly label the container, and send to a Transportation, Storage and

Disposal (TSD) facility via an approved waste hauler.

# Section 14 Transportation Information

### U.S. Department of Transportation (DOT)

Shipping Name Not a U.S. Department of Transportation (DOT) controlled substance.

Hazard Class N/A UN / NA Number N/A

Label / Placard N/A Packing Group N/A

### **International Dangerous Goods Information**

TDG / TDGA Not regulated as a dangerous good according to the Canadian Transportation of Dangerous

Goods (TDG) Act.

IMO / IMDG Not regulated as a dangerous good according to the International Maritime Organization's (IMO)

dangerous goods code.

ICAO Not regulated as a dangerous good according to the International Civil Aviation Organization

(ICAO) technical instructions.

**Special Provisions** This product does not require special transport provisions.

## Section 15 Regulatory Information

TSCA (8b) Inventory All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable

Quantity (RQ)

This product does not contain any hazardous substances in excess of the CERCLA de minimis

reportable quantity.

California Prop. 65 This product does not contain any substances known to the State of California to cause cancer.

State RTK Lists Triethanolamine, (CAS No.: 102-71-6): MA, MN, PA, RI

### Superfund Amendments and Reauthorization Act (SARA) Title III

Section 302 / 304 This product does not contain any Extremely Hazardous Substances (EHS) as defined and listed

under SARA Title III, Sections 302 and 304:

Section 311 / 312 The following Hazard Categories are applicable to this product, as defined and listed under

SARA Title III, Sections 311 and 312:

Acute HazardNoChronic HazardNoFire HazardNoReactivity HazardNoPressure HazardNo

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# Section 15 Regulatory Information

#### Superfund Amendments and Reauthorization Act (SARA) Title III

Section 313 This product does not contains any substances subject to the reporting requirements of SARA

Title III. Section 313:

#### International Regulatory Classifications

WHMIS (Canada) This product does not contain any substances controlled under the Canadian Workplace

Hazardous Materials Information System (WHMIS).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all information required by those regulations.

DSL (Canada) All materials and ingredients used in this product are listed, or exempt from inclusion on the

Canadian Domestic Substances List (DSL).

EINECS (EC) All materials and ingredients used in this product are listed, or exempt from inclusion on the

European Inventory of Existing Commercial Chemical Substances (EINECS).

WGK (Germany) Water Hazard Class: WGK 1: Slightly hazardous to water

### **European Labeling in Accordance with EC Directives**

Hazard Symbols Xi: Irritant



**Risk Phrases** R36/37/38: Irritating to the eyes, respiratory system and skin.

Safety Phrases S2: Keep out of reach of children

S24/25: Avoid contact with skin and eyes

S36/37: Wear suitable protective clothing and gloves

### **Section 16** Other Information

Reason for Issue New CAS Number Date of Issue January 16, 2013

Prepared By Compliance Consulting Group, Inc. Supersedes All previous

Revision History Rev. 01 (July 12, 2010): ANSI Z400.1-2004 MSDS. Complies with OSHA 29 CFR

1910.1200(g), EC and WHMIS requirements.

#### **DISCLAIMER**

As of the date of this document, Kool Mist believes the information contained herein to be accurate and reliable, and is provide in order to comply with applicable Federal, State and international regulations. This document in intended as a guide for the safe handling, storage and use of this material under normal conditions of use. No representation, warranty or guarantee, either express of implied, is intended or given. Kool Mist does not accept liability for any loss, injury or damage resulting from the use of this product.